

## Claims

1. Use of a precipitation-hardenable, martensitic, rustless chrome nickel steel with the following composition (in wt.-%):

|    |  |                                 |
|----|--|---------------------------------|
| 5  | Chromium                                 | 10 to 14                        |
|    | Nickel                                   | 7 to 11                         |
|    | Molybdenum                               | 0.5 to 6                        |
|    | Copper                                   | 0.5 to 4                        |
|    | Aluminium                                | 0.05 to 0.55                    |
| 10 | Titanium                                 | 0.4 to 1.4                      |
|    | Carbon + nitrogen                        | up to 0.3                       |
|    | Sulphur                                  | less than 0.05                  |
|    | Phosphorus                               | less than 0.05                  |
|    | Manganese                                | up to 0.5                       |
| 15 | Silicon                                  | up to 0.5                       |
|    | Tantalum, niobium, vanadium and tungsten | each up to 0.2                  |
|    | Cobalt                                   | where appropriate up to 9.0     |
|    | Boron                                    | where appropriate 0.0001 to 0.1 |

the remainder comprising iron and customary impurities

20 for the manufacture of machine-operated rotary tools, preferably drilling, milling, grinding and cutting tools.

2. Use according to claim 1, the rotary tools having geometrically defined cutting edges.

25 3. Use according to claim 1, the rotary tools having non-geometrically defined cutting edges.

4. Use according to one of claims 1 to 3, the rotary tools being medical tools and instruments.

5. Machine-operated rotary tools, made from precipitation-hardenable, martensitic, rustless 30 chrome nickel steel with the following composition (in wt.-%):

|    |                   |                |
|----|-------------------|----------------|
| 35 | Chromium          | 10 to 14       |
|    | Nickel            | 7 to 11        |
|    | Molybdenum        | 0.5 to 6       |
|    | Copper            | 0.5 to 4       |
|    | Aluminium         | 0.05 to 0.55   |
|    | Titanium          | 0.4 to 1.4     |
|    | Carbon + nitrogen | up to 0.3      |
|    | Sulphur           | less than 0.05 |
|    | Phosphorus        | less than 0.05 |

|   |  |                                 |
|---|--|---------------------------------|
|   | Manganese                                | up to 0.5                       |
|   | Silicon                                  | up to 0.5                       |
|   | Tantalum, niobium, vanadium and tungsten | each up to 0.2                  |
|   | Cobalt                                   | where appropriate up to 9.0     |
| 5 | Boron                                    | where appropriate 0.0001 to 0.1 |

the remainder comprising iron and customary impurities.

6. Machine-operated rotary tools according to claim 5, the rotary tools having geometrically defined cutting edges.
- 10 7. Machine-operated rotary tools according to claim 5, the rotary tools having non-geometrically defined cutting edges.
- 15 8. Machine-operated rotary tools according to one of claims 5 to 7, the rotary tools being medical tools and instruments.